Index for Volume 9

Authors

A

Arendt, J. Steven 262

B

Belanger, Jeam M. 150
Bowman, James W. 39
Britton, Laurence G. 16, 75
Brockwell, Jonathan L. 98
Buonicore, Anthony J. 103
Burns, Ross 242
Burk, Arthur F. 254, 269
Bussey, R. J. 247
Buzzelli, David T. 145

C

Carmody, Thomas W. ... 141, 204
Casada, M. L. 213
Creedy, Graham D. 238
Connelly, Edward M. 181
Curtis, James S. 91

D

Daugherty, David P. 44
De Haven, E. S. 131
Delbridge, Pat 183
Desai, Pankaj, R. 103
Dietsche, T. J. 131
DiMaio, L. R. 135
Dreiblatt, Adam 220
Dye, R. F. 67

E

Emerson, Steven D. 161

F

Farley, Carl W. 120
Felder, Richard M. 44
Freeman, Raymond A. 231
Fraser, W. J. 247
Frohlich, Bernd 152

G

Grumbles, Thomas G. 87

H

Haas, Paul M. 181
Hague, William J. 125
Haines, Don L. 61
Hancock, Bernard 114

J

Jackson, S. M. 220
Johnston, J. C. 247
Jourdan, Louis 155
June, R. K. 67

K

Kavasmaneck, Percy R. 148
Kirch, Larry S. 11
Kirkman, J. Q. 213
Kirsten, R. A. 1
Knowlton, R. E. 108

L

Lapp, Steven A. 176
Leone, Francis A. 226

M

Madhavan, S. 1
Magee, Joseph W. 11
Mani, S. 6

N

Neff, William A. 259
Norman, E. C. 135

O

Ormsby, Robert W. 166

P

Paula, M. M. 213
Pepe, William 125
Perkins, Rowan P. 39
Perry, Bob G. 246
Peterson, Hans K. 6
Pitblado, R. M. 169
Poje, Gerald V. 186

R

Ramsey, Curtis W. 117
Rausch, D. A. 154
Renshaw, Frank M. 194

S

Sanders, Roy E. 61
Schaller, L. C. 50
Scheimann, Wayne E. 156
Schreiber, Sanford 143
Selover, Theodore B. 207
Shoor, S. K. 6
Shortreed, John 198
Slater, D. H. 169
Smith, William L. 269
Stricott, R. Scott. 236
Stuper, Wayne W. 11
Sweeney, Joseph C. 139

T

Tamanini, Francesco 52
Tilton, James N. 120
Toth, William C. 244
Trask, Murray N. 158

V

Van Hemel, Susan B. 181
Van Mynen, Ronald 191

W

Williams, J. 169
Wood, James H. 61

Index for Volume 9

Authors

A

Arendt, J. Steven 262

B

Belanger, Jeam M. 150
Bowman, James W. 39
Britton, Laurence G. 16, 75
Brockwell, Jonathan L. 98
Buonicore, Anthony J. 103
Burns, Ross 242
Burk, Arthur F. 254, 269
Bussey, R. J. 247
Buzzelli, David T. 145

C

Carmody, Thomas W. ... 141, 204
Casada, M. L. 213
Creedy, Graham D. 238
Connelly, Edward M. 181
Curtis, James S. 91

D

Daugherty, David P. 44
De Haven, E. S. 131
Delbridge, Pat 183
Desai, Pankaj, R. 103
Dietsche, T. J. 131
DiMaio, L. R. 135
Dreiblatt, Adam 220
Dye, R. F. 67

E

Emerson, Steven D. 161

F

Farley, Carl W. 120
Felder, Richard M. 44
Freeman, Raymond A. 231
Fraser, W. J. 247
Frohlich, Bernd 152

G

Grumbles, Thomas G. 87

H

Haas, Paul M. 181
Hague, William J. 125
Haines, Don L. 61
Hancock, Bernard 114

J

Jackson, S. M. 220
Johnston, J. C. 247
Jourdan, Louis 155
June, R. K. 67

K

Kavasmaneck, Percy R. 148
Kirch, Larry S. 11
Kirkman, J. Q. 213
Kirsten, R. A. 1
Knowlton, R. E. 108

L

Lapp, Steven A. 176
Leone, Francis A. 226

M

Madhavan, S. 1
Magee, Joseph W. 11
Mani, S. 6

N

Neff, William A. 259
Norman, E. C. 135

O

Ormsby, Robert W. 166

P

Paula, M. M. 213
Pepe, William 125
Perkins, Rowan P. 39
Perry, Bob G. 246
Peterson, Hans K. 6
Pitblado, R. M. 169
Poje, Gerald V. 186

R

Ramsey, Curtis W. 117
Rausch, D. A. 154
Renshaw, Frank M. 194

S

Sanders, Roy E. 61
Schaller, L. C. 50
Scheimann, Wayne E. 156
Schreiber, Sanford 143
Selover, Theodore B. 207
Shoor, S. K. 6
Shortreed, John 198
Slater, D. H. 169
Smith, William L. 269
Stricott, R. Scott. 236
Stuper, Wayne W. 11
Sweeney, Joseph C. 139

T

Tamanini, Francesco 52
Tilton, James N. 120
Toth, William C. 244
Trask, Murray N. 158

V

Van Hemel, Susan B. 181
Van Mynen, Ronald 191

W

Williams, J. 169
Wood, James H. 61

Titles

A

Application of the DIERS Methodology to the Study of Runaway Polymerization 11
Application of Twin Screw Extruders for Reactive Processing 220

C

Canadian Chemical Producers' Association Transportation Code of Practice, The 242
Catalyst Explosion: A Case History 131
CCPA Manufacturing Code of Practice, The 238
CCPS Guidelines for Chemical Process Quantitative Risk Analysis 231
Center for Chemical Process Safety, The 143
CMA Responsible Care Process Safety Code of Management Practice 148
Combustion Hazards of Silane and Its Chlorides 16
Continuing Studies of Hazardous Material Vapor Mitigation Using Aqueous Foams 135
Current Research Developments and Future Needs 204

D

Dealing with the Process Safety "Management Gap" 108
Development of Leading Indicators of Process Safety 181

E

Engineering Controls to Minimize Worker Exposure to Ethylene Oxide at Sterilization Facilities 103
Experience with a Simulator for Training Ammonia Plant Operators 6
Expert System for Scheduling Production in a Multipurpose Specialty Chemicals Plant, An .. 44
Explosive Decomposition of Ethylene Oxide 67

F

Facility Risk Review as An Approach to Prioritizing Loss Prevention Efforts 213
Flow Chamber Simulations of Aerosol Formation and Liquid Jet Breakup for Pressurized Releases of Hydrogen Fluoride 125

H

Hazardous Materials Testing at the U.S. Dept. of Energy's Liquified Gaseous Fuels Spill Test Facility 226

I

Implementation of Effective Process Safety Programs 166
Implementing Process Safety Management Systems 236
Industrial Perspective on Environmental and Health Legislation in Canada, An 259
Introduction to Expert Systems and Potential Ammonia Applications 1

M

Major Accident Prevention Program, A 194
Major Risk Index System, The 176
Management of Process Safety at Kerr-McGee Corporation .. 161
Management of Quantitative Risk Assessment in the Chemical Process Industry 262
Management of Safe Operations in the Process Industry 152

O

Off Site Risk Assessment and Risk Minimization Guidelines ... 50
Operating Discipline 158
Operation Safety Program 246
Overview of Exposures and Exposure Control in the Ethylene Oxide Producer and Ethoxylation Industries, An 87

P

Plant Modification: Maintain Your Mechanical Integrity 117
Port: A Process Safety Audit System 156
Prediction of Decomposition Limits for Ethylene Oxide-Nitrogen Vapor Mixtures 98
Predicting Liquid Jet Breakup and Aerosol Formation During the Accidental Release of Pressurized Hydrogen Fluoride 120
Preventing Fires with Hire Temperature Vaporizers 39
Process Safety Management Implementation at Small Locations 244
Process Safety Management Within Dupont 269
Product Stewardship: A Supplier/Customer Partnership in Safety 154
Public Participation in Risk Assessment 183

Q

Quantitative Assessment of Process Safety Programs 169

R

Recent Advances in Research and Future Requirements 198
Regulatory Initiatives and Related Activities in the United States 254
Responsible Care 150
Restoring Public Confidence in the Safety of Chemical Plants ... 145
Rising American Expectations for a Larger Public Role to Prevent Chemical Accidents 186
Risk Management Concepts in the Chemical Industry: One Large Manufacturer's Approach ... 191
Role of the CEFIC in the Promotion of Process Safety, The 155

S

Safer Piping: Awareness Training for the Process Industries 114
Semi-Quantitative Risk Assessment Method for Product Management 247
Safe Storage of Dilute Ethylene Oxide Mixtures in Water ... 91
Stop Tank Abuse 61

T

Thermal Stability and Deflagration of Ethylene Oxide 75
Turbulence Effects on Dust Explosion Venting 52

U

Update on AIChE's Center for Chemical Process Safety ... 141
Use of DIPPR Data in Reactive Chemical Hazard Assessment 207

Subjects

A

Accident prevention program ... 194
Aerosol formation
  flow chamber simulations of .. 125
  predicting ... 120
Ammonia plant applications, introduction to ... 1
Ammonia plant operators ... 6
Aqueous foams ... 135

C

Canadian Chemical Producer's Association ... 238, 242
Catalyst Explosion ... 131
CEFIC (European Chemical Industry Federation) ... 155
Center for Chemical Process Safety (CCPS) ... 141, 143, 231
Chemical accidents, larger public role to prevent ... 186
Chemical plants, restoring public confidence in ... 145
Chemical process quantitative risk analysis ... 231
Chemicals plant, multipurpose specialty ... 44
CMA (Chemical Manufacturer's Association) ... 148
Code of practice, CCPA ... 242

D

Department of Energy ... 226
Design Institute for Physical Property Data ... 207
DIERS (Design Institute for Emergency Relief Systems) ... 11
Dust explosion venting, turbulent effects on ... 52

E

Environmental and health legislation in Canada ... 259
Ethoxylation industries ... 87
Ethylene oxide
  controls to minimize exposure to ... 103
  explosive decomposition of ... 67
  exposure and exposure control ... 87
  safe storage of dilute mixtures ... 91
  thermal stability and deflagration of ... 75
Ethylene oxide-nitrogen vapor mixtures ... 98
Explosion, catalyst ... 131

F

Fires, preventing with high temperature vaporizers ... 39
Foams, aqueous ... 135
Fuels, liquefied gaseous ... 22

H

Hazardous materials testing ... 226
Hazardous material vapor mitigation ... 135

L

Liquefied gaseous fuels ... 22
Liquid jet breakup ... 120, 125
Loss prevention ... 213

M

Major risk index system ... 176

O

Operating discipline ... 158
Operational safety program ... 246

P

Plant modifications ... 117
Polymerization, study of runaway ... 11
Pressurized hydrogen fluoride, accidental release of ... 120
Process industries, awareness training for the ... 114
Process safety
  audit system ... 156
  developing leading indicators of ... 181
  management ... 108, 161, 236, 244, 2
  programs ... 166, 169
  promotion ... 155
Product stewardship ... 154

Q

Quantitative risk assessment ... 262

R

Regulatory initiatives and related activities in the US ... 254
Research developments, current and future needs ... 198, 203
Responsible care code of management ... 148, 150
Risk assessment ... 50, 183, 247, 262
Risk index system ... 176
Risk minimization guidelines ... 50

S

Safe operations in the process industry ... 152
Safer piping ... 114
Silane, combustion hazards of ... 16
Spill test facility ... 226

T

Tank abuse ... 61
Transportation code of practice .. 242
Twin screw extruders ... 220

V

Vapor mitigation ... 135
Vaporizers, high temperature ... 39